PCT

REQUEST

The undersigned requests that the present international application be processed according to the Patent Cooperation Treaty

For receiving e use only	·
International Application No.	
International Filing Date	
Name of receiving Office and "PCT International Application	n"

according to the Patent Cooperation Treaty.	Name of receiving Office and "PCT International Application"				
	Applicant's or agent's file reference (if desired) (12 characters maximum) 59131-A-PCT/JPW/EMW				
Box No. 1 TITLE OF INVENTION		· 2000年的自由企業的研究的			
GENE ENCODING NADE, P75NTR-ASSOCIATED CI	ELL DEATH EXECUT	OR AND USES THEREOF			
Box No. II APPLICANT					
Name and address: (Family name followed by given name; for a designation. The address must include postal code and name of cou address indicated in this Box is the applicant's State (that is, country of residence is indicated below.)	This person is also inventor.				
THE TRUSTEES OF COLUMBIA UNIVERSITY I	N THE CITY	Telephone No. None			
OF NEW YORK		Facsimile No.			
West 116th Street and Broadway		None			
New York, New York 10027 United States of America		Teleprinter No.			
United States of America		None			
State (that is, country) of nationality:	State (that is, country) of	1			
United States of America	United State				
This person is applicant all designated for the purposes of:		United States America only the States indicated in the Supplemental Box			
Box No. III FURTHER APPLICANT(S) AND/OR (FURTH	IER) INVENTOR(S)				
Name and address: (Family name followed by given name; for a ladesignation. The address must include postal code and name of count address indicated in this Box is the applicant's State (that is, country) of residence is indicated below.)	egal entity, full official try. The country of the of residence if no State	This person is:			
SATO, Taka-Aki		applicant only			
1275 15th Street, Apt. 8P		X applicant and inventor			
Fort Lee, New Jersey 07024	•				
United States of America		inventor only (If this check-box is marked, do not fill in helow.)			
State (that is, country) of nationality:	State tthat is, country of				
Japan					
This person is applicant for the purposes of:	States except the of America	United States America only the States indicated in the Supplemental Box			
Further applicants and or (further) inventors are indicated on a continuation sheet.					
Box No. IV AGENT OR COMMON REPRESENTATIVE; OR ADDRESS FOR CORRESPONDENCE					
The person identified below is hereby has been appointed to act on of the applicant(s) before the competent International Authorities as		common representative			
Name and address: (Family name followed by given name; for a ladesignation. The address must include postal cod	egal entity, full official	Telephone No.			
WHITE, John P.	е ана нате ој сотилул	(212) 278-0400			
Cooper & Dunham LLP		Facsimile No.			
1185 Avenue of the Americas		(212) 391-0526			
New York, New York 10036		Teleprinter No.			
United States of America		None			
Address for correspondence: Mark this check-box where no	agent or common represe	entative is has been appointed and the			

				_			
Box No.V DESIGNATION OF STATE							
Th	e folle	owing designations are hereby made under Rule 4.9(a) (m	ıark	the ap	plicable check-hoxes; at least one must be marked):		
X	AP	P ARIPO Patent: GH Ghana, GM Gambia, KE Kenya, LS Lesotho, MW Malawi, SD Sudan, SL Sierra Leone, SZ Swaziland, TZ United Republic of Tanzania, UG Uganda, ZW Zimbabwe, and any other State which is a Contracting State of the Harare					
		Protocol and of the PCT A Eurasian Patent: AM Armenia, AZ Azerbaijan, BY Belarus, KG Kyrgyzstan, KZ Kazakhstan, MD Republic of Moldova, RU Russian Federation, TJ Tajikistan, TM Turkmenistan, and any other State which is a Contracting State of the Eurasian Patent Convention and of the PCT					
		European Patent: AT Austria, BE Belgium, CH and LI Switzerland and Liechtenstein, CY Cyprus, DE Germany, DK Denmark, ES Spain, FI Finland, FR France, GB United Kingdom, GR Greece, IE Ireland, IT Italy, LU Luxembourg, MC Monaco, NL Netherlands, PT Portugal, SE Sweden, and any other State which is a Contracting State of the European Patent Convention and of the PCT					
X	OA	Convention and of the PC1 A OAPI Patent: BF Burkina Faso, BJ Benin, CF Central African Republic, CG Congo, Cl Côte d'Ivoire, CM Cameroon, GA Gabon, GN Guinea, GW Guinea-Bissau, ML Mali, MR Mauritania, NE Niger, SN Senegal, TD Chad, TG Togo, and any other State which is a member State of OAPI and a Contracting State of the PCT (if other kind of protection or treatment desired, specify on dotted line)					
		specify on dolled line)	· · ·	 dan	ad limit		
		al Patent (if other kind of protection or treatment desired, spec			•		
\Bar{\Bar{\Bar{\Bar{\Bar{\Bar{\Bar{	AE	United Arab Emirates			Liberia		
Ø	AL	Albania	X	LS	Lesotho :		
X	AM	Armenia	X	LT	Lithuania		
X	AT	Austria	\square	LU	Luxembourg		
X	ΑU	Australia			Latvia		
X	ΑZ	Azerbaijan			Morocco		
		Bosnia and Herzegovina			Republic of Moldova		
		Barbados	X	MG	Madagascar		
X	BG	Bulgaria	X	MK	The former Yugoslav Republic of Macedonia		
X	RR	Brazil					
X	RY	Belarus	X	MN	Mongolia		
X		Canada	$\overline{\mathbf{x}}$	MW	Malawi		
		and LI Switzerland and Liechtenstein			Mexico		
		China	-		Norway		
	CR	Costa Rica	_		New Zealand		
	CU	Cuba	=	PL	Poland		
		Czech Republic	=	PT	Portugal		
		Germany		RO	Romania		
		Denmark	=	RU	Russian Federation		
_		Dominica	=	SD	Sudan		
		Estonia	=	SE	Sweden		
			_	SG	Singapore		
X		Finland	`	SI	Slovenia		
_	FI		_	SK	Slovakia		
		United Kingdom		SL	Sierra Leone		
	GD	Grenada	=	TJ	Tajikistan		
X	GE	Georgia		TM	Turkmenistan		
		Ghana	_	TR	Turkev		
<u> </u>	GM	Gambia	_		Trinidad and Topago		
IX.	HR	Croatia	_	TT	United Republic of Tanzania		
	HU	Hungary	_	TZ			
	ID	Indonesia		UA			
	IL	Israel		UG	United States of America		
IX	IN	India	ĮĄ.	US			
X	IS	Iceland			continuation-in-part (see Page 4)		
X	JР	Japan	X	UZ	Uzbekistan		
X	KE	Kenya	=	VN	Viet Nam		
X	KG	Kyrgyzstan	X	YU	Yugoslavia		
1 =	KP	Democratic People's Republic of Korea	X	ZA	South Africa		
_					Zimbabwe		
ΙV	l KR	Republic of Korea	ÇI	reck-	boxes reserved for designating States which have		
됩) K7	Kazakhstan	be		party to the PCT after issuance of this sheet:		
		Caint Lucia	X	MZ	Z.Mozambique		

Precautionary Designation Statement: In addition to the designations made above, the applicant also makes under Rule 4.9(b) all other designations which would be permitted under the PCT except any designation(s) indicated in the Supplemental Box as being excluded from the scope of this statement. The applicant declares that those additional designations are subject to confirmation and that any designation which is not confirmed before the expiration of 15 months from the priority date is to be regarded as withdrawn by the applicant at the expiration of that time limit. (Confirmation (including fees) must reach the receiving Office within the 15-month time limit.)

LC Saint Lucia

K LK Sri Lanka

Box No. VI PRIORITY C	LAIM	Further prio	rity claims ar	in the Supplemental Box.		
Filing date Number of earlier application			Where earlier applitudon is:			
of earlier application (day/month/year)	or earner apprication	national application: country	regional application:* regional Office	international application: receiving Office		
(7 June 1999)	09/327,750	US				
item (2)						
item (3)	·					
of the earlier application(s) (only if the earlier a	transmit to the International Bur application was filed with the (a) is the receiving Office) identifi	Office which for the	1		
* Where the earlier application is Convention for the Protection of h				one country party to the Paris		
	NAL SEARCHING			Supplemental Box.		
Choice of International Search (if two or more International Sea competent to carry out the interna- the Authority chosen; the two-lette	rching Authorities are itional search, indicate	Request to use results of ear search has been carried out by or Date (day/month/year)	lier search; reference requested from the Interna Number	to that search (if an earlier ational Searching Authority): Country (or regional Office)		
ISA / US			,			
Box No. VIII CHECK LIST	; LANGUAGE OF I	FILING .				
This international application of the following number of sheet	s:	itional application is accompan	ied by the item(s) mark	ed below:		
request : 5	I. IXI Iee c	alculation sheet				
description (excluding sequence listing part) : 86	_	rate signed power of attorney of general power of attorney:	reference number, if any			
sequence listing part) : 86		ment explaining lack of signatu	•	y •		
abstract : 1	_	ity document(s) identified in B				
drawings : 29	6. 🔲 trans	lation of international application	on into (language):			
sequence listing part of description : ()	rate indications concerning depo		- .		
Total number of sheets: 13		colide and/or amino acid sequer (specify): Transmittal	•			
Figure of the drawings which should accompany the abstract:		Language of filing of the international application:	nglish			
Box No. IX SIGNATURE OF APPLICANT OR AGENT						
Next to each signature, indicate the na	me of the person signing ar	nd the capacity in which the person sig	gns (if such capacity is not ob	vious from reading the request).		
THE TRUSTEES OF COLUMBIA UNIVERSITY IN THE CITY OF NEW YORK						
NAME: Jack M. Granowitz Date						
TITLE: Executive Director, Columbia Innovation Enterprise For receiving Office use only						
Date of actual receipt of the purported international application: 2. Drawings:						
3. Corrected date of actual receipt due to later but timely received papers or drawings completing the purported international application:						
4. Date of timely receipt of the required corrections under PCT Article 11(2):						
5. International Searching Auth (if two or more are competen	ority i): ISA /	6. Transmitta until scarch	I of search copy delayed h fee is paid.	i		
Pole of receipt of the record cony						
Date of receipt of the record copy by the International Bureau:						

Form PCT/RO/101 (last sheet) (July 1998; reprint January 1999)

See Notes to the request form

Sheet No. 3A . . .

Box No. VI PRIORITY CLAIM		Further p	Further priority claims are ted in the Supplemental Box.			
Filing date Numb			Where earlier application is:			
of earlier application (day/month/year)	of earlier application	on national application country				
item(1) 07.06.99	09/327,750	US				
(7 June 1999)						
item (2)						
item (3)						
of the earlier application(s) (only if the earlier a	transmit to the International application was filed with the is the receiving Office) iden	he Office which for the	1		
• Where the earlier application is Convention for the Protection of In	an ARIPO application, in dustrial Property for wh	it is mandatory to indicate in the	e Supplemental Box at least of filed (Rule 4 10(h)(ii))	one country party to the Paris		
	NAL SEARCHING		ynea mil 4. 1010/my. See	Supplemental Box.		
Choice of International Searching Authority (ISA) (if two or more International Searching Authorities are competent to carry out the international Search, indicate						
the Authority chosen; the two-lette. ISA / US	r code may be usedy.	Date (day/month/year)	Number	Country (or regional Office)		
Box No. VIII CHECK LIST:	· LANGUAGE OF E	FILING				
This international application co		tional application is accomp	anied by the item(s) marks	ed below:		
the following number of sheets	:	alculation sheet	anted by the hemits) marki	ed below.		
request : 5		rate signed power of attorney	<i>;</i>			
description (excluding sequence listing part) : 86	3. □ сору	of general power of attorney	y: reference number, if any	v:		
claims : 18	4. 🔲 stater	ment explaining lack of sign	ature			
abstract : 1	5. 🔲 priori	ity document(s) identified in	Box No. VI as item(s):			
drawings : 29	6. 🔲 transl	lation of international applic	ation into (language):			
sequence listing part of description : 0		ate indications concerning d		*		
		cotide and/or amino acid seq	- ·			
Figure of the drawings which	9 9. <u>[X]</u> Other	(specify): Transmitta Language of filing of the	Letter, Attachi	nent A		
should accompany the abstract:		international application:	English			
	F APPLICANT OR					
Next to each signature, indicate the nan	ne of the person signing an	d the capacity in which the person	signs (if such capacity is not ob	vious from reading the request).		
· <u>-</u>				•		
Taka-Aki Sato Date						
1. Date of actual receipt of the purported international application: For receiving Office use only 2. Drawings:						
3. Corrected date of actual receipt due to later but timely received papers or drawings completing the purported international application:						
4. Date of timely receipt of the required corrections under PCT Article 11(2):						
5. International Searching Autho (if two or more are competent)		6. Transmi until sca	ttal of search copy delayed rch fee is paid.			
For International Bureau use only						
Date of receipt of the record copy by the International Bureau: [-						

Supplemental Box

If the Supple

Box is not used, this sheet should not be include

e request.

1. If, in any of the Boxes, the space is insufficient to furnish all the information: in such case, write "Continuation of Box No. ..." [indicate the number of the Box] and furnish the information in the same manner as required according to the captions of the Box in which the space was insufficient, in particular:

- (i) if more than two persons are involved as applicants and/or inventors and no "continuation sheet" is available: in such case, write "Continuation of Box No. III" and indicate for each additional person the same type of information as required in Box No. III. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below:
- (ii) if, in Box No. II or in any of the sub-boxes of Box No. III, the indication "the States indicated in the Supplemental Box" is checked: in such case, write "Continuation of Box No. II" or "Continuation of Box No. III" or "Continuation of Boxes No. II and No. III" (as the case may be), indicate the name of the applicant(s) involved and, next to (each) such name, the State(s) (and/or, where applicable, ARIPO, Eurasian, European or OAPI patent) for the purposes of which the named person is applicant;
- if, in Box No. II or in any of the sub-boxes of Box No. III, the inventor or the inventor/applicant is not inventor for the purposes of all designated States or for the purposes of the United States of America: in such case, write "Continuation of Box No. II" or "Continuation of Box No. III" or "Continuation of Boxes No. II and No. III" (as the case may be), indicate the name of the inventor(s) and, next to (each) such name, the State(s) (and/or, where applicable, ARIPO, Eurasian, European or OAPI patent) for the purposes of which the named person is inventor;
- (iv) if, in addition to the agent(s) indicated in Box No. II', there are further agents: in such case, write "Continuation of Box No. II" and indicate for each further agent the same type of information as required in Box No. II';
- (v) if, in Box No. I', the name of any State (or OAPI) is accompanied by the indication "patent of addition," or "certificate of addition," or if, in Box No. I', the name of the United States of America is accompanied by an indication "continuation" or "continuation-in-part": in such case, write "Continuation of Box No. I'" and the name of each State involved (or OAPI), and after the name of each such State (or OAPI), the number of the parent title or parent application and the date of grant of the parent title or filing of the parent application;
- (vi) if, in Box No. 17, there are more than three earlier applications whose priority is claimed: in such case, write "Continuation of Box No. 17" and indicate for each additional earlier application the same type of information as required in Box No. 17;
- (vii) if, in Box No. 17, the earlier application is an ARIPO application: in such case, write "Continuation of Box No. 17", specify the number of the item corresponding to that earlier application and indicate at least one country party to the Paris Convention for the Protection of Industrial Property or one Member of the World Trade Organization for which that earlier application was filed.
- 2. If, with regard to the precautionary designation statement contained in Box No. V, the applicant wishes to exclude any State(s) from the scope of that statement: in such case, write "Designation(s) excluded from precautionary designation statement" and indicate the name or two-letter code of each State so excluded.
- 3. If the applicant claims, in respect of any designated Office, the henefits of provisions of the national law concerning non-prejudicial disclosures or exceptions to lack of novelty: in such case, write "Statement concerning non-prejudicial disclosures or exceptions to lack of novelty" and furnish that statement below.

Continuation of Box V.: U.S. Serial No. 09/327,750, filed June 7, 1999.